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(71) Applicant (for all designated States except US): **I.D.E. TECHNOLOGIES LTD.** [IL/IL]; Hamatechet Street, P.O.Box 5016, Hasharon Industrial Park, 60920 Kadima (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ROJANSKIY, Henrikh** [IL/IL]; 526/15 King David Street, 30600 Or Akiva (IL). **OPHIR, Avraham** [IL/IL]; 4 Neve Oved Street, 46602 Herzliya (IL).

(74) Agent: **REINHOLD COHN AND PARTNERS**; P.O. Box 4060, 61040 Tel Aviv (IL).

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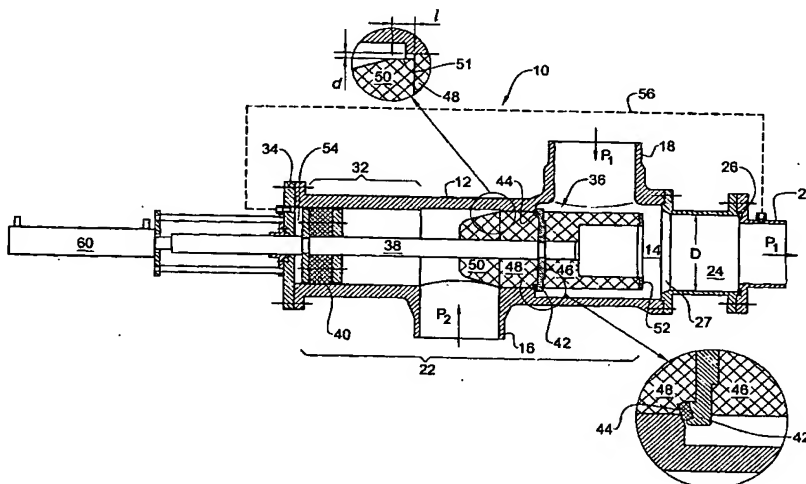
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(54) Title: **THREE-WAY POPPET VALVE FOR WORK EXCHANGER**



(57) Abstract: A three-way two-position poppet valve (10) comprising a housing (12) with a generally cylindrical valve chamber (14), a first (20) and a second (16) port with coaxial valve seats (26, 28) at the ends of the chamber, and a third lateral working port (18). A poppet body (36) is disposed reciprocally in the valve chamber so that in a first position of the poppet body the first valve seat (26) is sealed and the second port communicates with the working port, and in a second position the second valve seat (28) is sealed and the first port communicates with the working port. The valve is characterized in that the housing has two coaxial cylindrical passages (24, 30) adjacent the respective valve seats, while the poppet body has two coaxial cylinder parts (44, 48) slidingly and fluidly fitting the cylindrical passages, so that the poppet body is always supported in at least one of the cylindrical passages and fluid communication between the first and the second port is always prevented.

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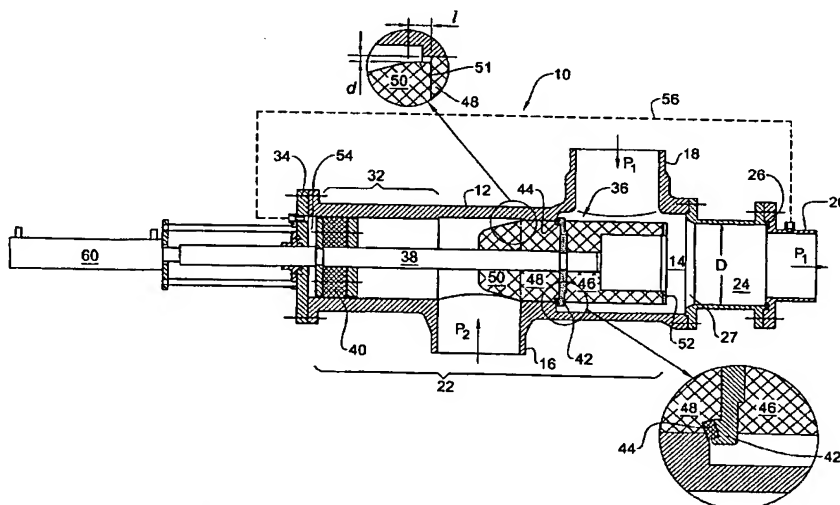
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